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Air Pollution Control News from

Humboldt - Trinity & Del Norte

Volume 7, No. 1

First Quarter - 1975

5600 South Broadway, Eureka, California 95501

(707) 443-3091

SOLID WASTE PROGRAM REVISED

The Humboldt County Board of Supervisors has approved a proposal submitted by the engineering firm of Garretson, Elmendorf, Zinov and Reibin (GEZR) to develop a detailed plan leading to replacement of the Table Bluff landfill and construction of a solid waste processing plant. The proposed facility would be designed to prepare a solid waste fuel fraction for use in local industry owned boilers and to recover other resource fractions as may be economically feasible. The Board has also authorized Mr. James McCall of Consul Corporation to prepare a federal grant application seeking federal funding assistance in the overall development of the processing facility. The County solid waste task force is investigating alternative situations regarding operation of a central solid waste processing facility by a private disposal site operator.

FEDERAL STANDARDS ADOPTED

The Humboldt and Del Norte County Boards of Supervisors have adopted the necessary air pollution control procedures and regulations required for Environmental Protection Agency delegation of authority to enforce new source performance standards (NSPS) and national emission standards for hazardous air pollutants, (NESHAPS). The Trinity County Board of Supervisors has scheduled a hearing on April 14 to consider adoption of these standards. Formal request for federal delegation has been forwarded to EPA through the California Air Resources Board. Other minor changes in air pollution control regulations were adopted for mechanized burners, indirect source definition, and agricultural burning notification and reporting procedures.

COMPLAINT SCOREBOARD

A dry, mild January brought an unseasonably high level of pulp mill odor complaints which then dropped to record low levels in February and March.

	<u>January</u>	<u>February</u>	<u>March</u>
Smoke	13	12	16
Fallout	5	1	4
Pulp mill odor	55	11	20
Miscellaneous	1	1	1

GASOLINE TANK PERMITS COMPLETED

The Humboldt County Air Pollution Control District has completed the issuance of operating permits for all gasoline storage tanks in excess of 250 gallons capacity in Humboldt, Del Norte and Trinity Counties. Final totals showed 430 permits for 786 gasoline tanks in Humboldt County, 62 permits for 133 tanks in Del Norte County and 60 permits for 111 tanks in Trinity County. Another interesting statistic generated during this permit issuance program was the total capacity of 10 million gallons of gasoline tankage in Humboldt County. Vapor recovery systems are not required on gasoline tanks presently covered by permits, but all new tanks in excess of 40,000 gallons capacity are subject to the special provisions of the Environmental Protection Agency's new source performance standards which require a floating roof, vapor recovery system or equivalent vapor control device. Persons wishing more information on these Environmental Protection Agency requirements are requested to contact the Humboldt County Air Pollution Control District.

AIR POLLUTION VIOLATIONS

Sixteen air pollution violation notices were issued during the first quarter of 1975. Most of the excess smoke violations were caused by tepee burners attempting to burn water soaked bark or undersized fuel piles. The recurrent violations by the Twin Parks Lumber Company and Carlotta Lumber Company were referred to the District Attorney's Office.

<u>Date</u>	<u>Location</u>	<u>Source</u>	<u>Violation</u>
1-24-75	Cal-Pacific Mfg.	Hoopa	Tepee Burner Rule 50-Visual Emissions
1-27-75	McIntosh Lbr. Co.	Blue Lake	Tepee Burner Rule 50-Visual Emissions
2-14-75	M & J Lbr. Co.	Myers Flat	Tepee Burner Rule 50-Visual Emissions
2-21-75	Twin Parks Lbr. Co.	Arcata	Tepee Burner Rule 10-No Permit
2-21-75	Kimberly-Clark	Wildwood	Tepee Burner Rule 40-Visual Emissions
2-21-75	Sierra Pacific	Hayfork	Tepee Burner Rule 40-Visual Emissions
2-24-75	Mission Fence Co.	Arcata	Tepee Burner Rule 50-Visual Emissions
2-24-75	Sierra Pacific	Samoa Road	Tepee Burner Rule 50-Visual Emissions
2-27-75	Ben Rounds	Blue Lake	Open Burning Rule 53-Open Fires
2-28-75	Carlotta Lbr. Co.	Carlotta	Tepee Burner Rule 50-Visual Emissions
3- 4-75	Cal-Pacific Mfg.	Hoopa	Tepee Burner Rule 50-Visual Emissions
3- 4-75	Rocklin Veneer	Willow Creek	Tepee Burner Rule 50-Visual Emissions
3- 5-75	Gosselin Tire Serv.	Eureka	Tire Buffer Rule 50-Visual Emissions
3-14-75	Pacific Lumber Co.	Scotia	Power Boiler Rule 50-Visual Emissions
3-14-75	M & J Lbr. Co.	Myers Flat	Tepee Burner Rule 50-Visual Emissions
3-28-75	McIntosh Lbr. Co.	Blue Lake	Tepee Burner Rule 50-Visual Emissions

BOILER IMPROVEMENTS COMPLETED

Major particulate emission control programs have recently been completed at the Crown Simpson Pulp Company, the Pacific Lumber Company at Scotia, and the Simpson Timber Company's Fairhaven Plywood Plant. All three control programs required modifications to existing boiler plants in order to bring particulate emissions within the limits of the Rules and Regulations of the Humboldt County Air Pollution Control District. Crown Simpson's installation of added transformer capacity decreased particulate emissions from their recovery furnace to less than 0.07 grains per cubic foot of exhaust gases. The Pacific Lumber Company solved their boiler emission problems by installing a sand classifier on the cinder re-injection system. The Simpson Timber Company added a new smoke opacity control system which automatically varies furnace combustion air flow as necessary to maintain efficient combustion under changing furnace conditions. Completion of these programs finally brings all steam generating boiler systems operating in Humboldt County into compliance with the particulate emission regulations.

SUSPENDED PARTICULATE MATTER
(Micrograms Per Cubic Meter)*

COUNTY	HUMBOLDT						DEL NORTE	TRINITY
Date	Eureka Health	Eureka Dept. Trans	Arcata Fire Dept.	Samoa	McKinleyville	Trinidad	Crescent City	Weaverville
Jan. 6	68	73	58	190	74	187	-	71
12	103	97	48	146	36	86		
18	70	82	51	41	39	36	61	58
24	100	120	70	200	66	182		
30	70	63	77	115	37	58	-	42
Feb. 5	12	10	17	18	7	18		
11	13	10	15	25	12	38	36	24
17	46	53	45	67	30	71		
23	62	63	44	-	48	80	70	36
Mar. 1	29	28	20	39	20	75		
7	17	13	-	34	15	36	57	18
13	54	51	-	72	41	61		
19	33	28	-	62	31	62	-	19
25	135	119	-	333	71	80		
31	95	93	66	326	65	44	44	-
Max.	135	120	77	333	74	187	70	71

*The California maximum allowable value is 100 micrograms per cubic meter for a 24 hour sample.

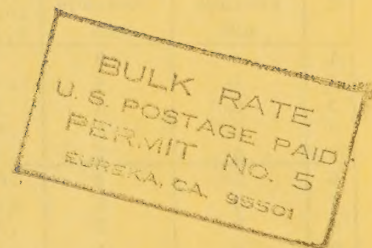
AIR QUALITY SUMMARY - EUREKA

JANUARY					FEBRUARY					MARCH				
Date	TRS#1 High Hr. Average ppb	CO High Hr. Average ppm	Particula- tes #2 High 2-hr. Interval D.T. E.H.		Date	TRS#1 High Hr. Average ppb	CO High Hr. Average ppm	Particula- tes #2 High 2-hr. Interval D.T. E.H.		Date	TRS#1 High Hr. Average ppb	CO High Hr. Average ppm	Particula- tes #2 High 2-hr. Interval D.T. E.H.	
1	-	3	.5	.5	1	0	1	.4	.5	1	0	1	.2	.2
2	1	4	1.5	1.3	2	0	1	.3	.3	2	0	2	.2	.2
3	0	6	1.3	1.1	3	3	1	.4	.5	3	-	4	.5	.5
4	0	2	.6	.9	4	0	2	.3	.4	4	-	10	1.2	1.1
5	0	2	.3	.4	5	0	1	.1	.2	5	1	4	.9	-
6	3	3	.8	.6	6	0	1	.1	.1	6	-	7	.7	.7
7	0	2	.3	.3	7	0	5	.3	.7	7	-	5	.5	.6
8	5	2	.3	.3	8	0	1	.1	.2	8	1	2	.6	.5
9	0	4	.3	.6	9	0	1	.3	.4	9	-	1	.2	.3
10	1	5	1.0	.8	10	0	2	.2	.4	10	-	4	.5	-
11	2	3	1.3	1.2	11	0	2	.2	.2	11	-	2	.2	.3
12	1	4	1.4	1.0	12	0	3	.4	.6	12	1	1	.2	.2
13	1	6	.7	.8	13	1	2	.3	.5	13	1	2	.2	.3
14	2	15	-	-	14	0	7	.6	.7	14	1	5	.8	.6
15	1	4	-	-	15	0	2	.7	.5	15	-	2	.4	.3
16	1	5	-	-	16	1	1	.2	.2	16	-	1	.3	.5
17	6	6	-	-	17	4	4	.7	.8	17	-	1	.2	.2
18	4	7	-	-	18	0	2	.2	.4	18	0	2	.3	.4
19	1	7	-	-	19	0	1	.2	.3	19	-	2	.4	.3
20	0	2	-	-	20	1	2	.3	.5	20	0	2	.3	.4
21	7	5	1.3	-	21	-	7	-	.9	21	-	1	.2	.4
22	1	7	1.1	1.0	22	-	3	-	.8	22	-	1	.2	.2
23	2	7	.9	.9	23	-	4	-	.7	23	-	1	.3	.1
24	5	5	.8	.9	24	-	6	-	.5	24	0	3	.4	.5
25	-	1	.3	.2	25	-	6	-	.3	25	1	1	-	.2
26	-	3	1.4	1.0	26	-	5	-	.8	26	2	2	-	.1
27	0	4	.4	.6	27	-	2	-	.6	27	2	3	.3	.2
28	0	3	.5	.5	28	-	3	.4	.5	28	4	3	.4	.3
29	1	7	1.0	1.6	29					29	2	2	.5	.3
30	0	9	1.0	1.0	30					30	1	1	.2	.2
31	0	2	.3	.2	31					31	-	1	.2	.2
Max	7	15	1.5	1.6	Max	4	7	.7	.9	Max	4	10	1.2	1.1

#1 Total Reduced Sulfur

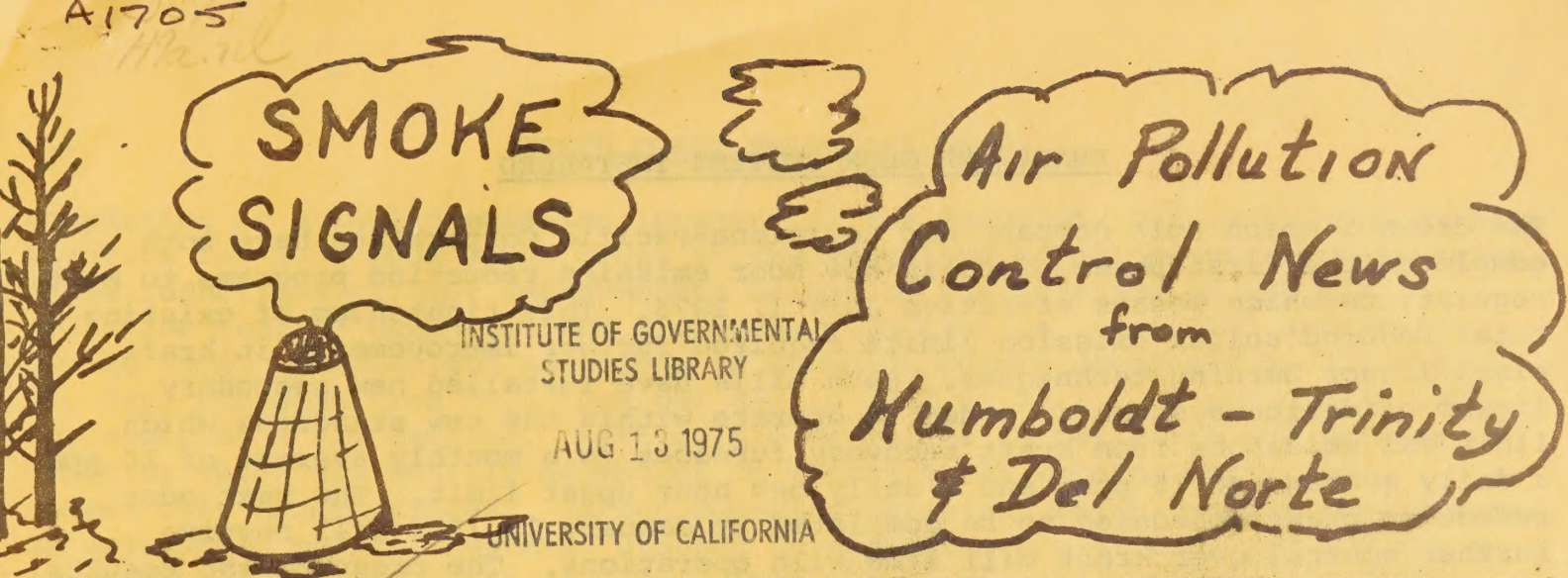
#2 COH units per 1,000 lineal foot of air sampled

HUMBOLDT COUNTY
AIR POLLUTION CONTROL DISTRICT
5600 SOUTH BROADWAY
EUREKA, CALIFORNIA 95501



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A1705



Volume 7, No. 2

Second Quarter - 1975

5600 South Broadway, Eureka, California 95501

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CAPCOA REVISED

After almost a two year period of dormancy, renewed interest has developed in forming a California Air Pollution Control Officers' Association. If current plans materialize, it is planned to initiate this organization as a committee of the West Coast Section of APCA and later expand program activities in accordance with member interests. The proposed objectives of the Association would be:

1. To promote unity and efficiency among air pollution control districts in the State of California.
2. To act as a forum for sharing knowledge, experience and information among the members of the Association.
3. To better serve the public by application of protective and reasonable enforcement procedures.
4. To promote uniformity in methods and practices of control program administration and funding.
5. To coordinate with state and federal air pollution control agencies in developing practical program policies and objectives.
6. To participate in the development of legislation beneficial to the mutual interests of air pollution control and welfare of the general public.
7. To enhance air pollution control efforts by disseminating factual and accurate information for education of the public.
8. To promote the professional development of the membership of the Association.

Formation plans are to be further developed at a luncheon meeting to be held in connection with the West Coast APCA meeting in San Diego on October 9, 1975. All interested California Air Pollution Control Officers are urged to attend.

PHASE ONE ODOR SYSTEMS INSTALLED

The Crown Simpson Pulp Company and Louisiana-Pacific Corporation have both completed the first phase of their new odor emission reduction programs to meet regulations which became effective July 1, 1975. This tightening of existing total reduced sulfur emission limits required further improvements in kraft black liquor burning techniques. Both mills have installed new secondary liquor oxidation systems in order to operate within the new standards which limit TRS emissions from kraft recovery furnaces to a monthly average of 10 ppm, a daily average of 15 ppm, and a daily one hour upset limit. The next odor reduction phase scheduled to be completed by January 1, 1976 will require further control over kraft mill lime kiln operations. The progress and results of each odor control system improvement are being carefully analyzed by the Humboldt County Air Pollution Control District in an attempt to more systematically categorize special mill problem areas.

AIR POLLUTION VIOLATIONS

Eleven air pollution violation notices were issued during the past three months, including one in Trinity County and two in Del Norte County. The prolonged delay in installing control equipment by the Fre-Co Redwood Gifts Company resulted in final referral to the District Attorney's Office.

<u>Date</u>	<u>Location</u>	<u>Source</u>	<u>Violation</u>
3-27-75	Fre-Co Redwood Gifts	Eureka	Sawdust Blr. Rule 10-No Permit
4- 9-75	Cal-Pacific Mfg. Co.	Hoopa	Tepee Burner Rule 50-Visual Emissions
4-24-75	Englewood Lbr. Co.	Redcrest	Tepee Burner Rule 50-Visual Emissions
4-24-75	Carlotta Lumber Co.	Carlotta	Tepee Burner Rule 50-Visual Emissions
4-25-75	Carolina Pacific	Burnt Ranch	Tepee Burner Rule 40-Visual Emissions
5-12-75	James Carl Company	Eureka	Open Burning Rule 53-Open Fires
5-20-75	McIntosh Lumber Co.	Blue Lake	Tepee Burner Rule 50-Visual Emissions
5-30-75	Peterson Brothers	Klamath	Tepee Burner Rule 40-Visual Emissions
5-30-75	Standard Plywood	Crescent City	Cyclone Sys. Rule 20-No Permit
6- 4-75	L. P. Corporation	Big Lagoon	Mech. Burner Rule 67-Visual Emissions
6- 9-75	Cal-Kirk Landscaping	Arcata	Open Burning Rule 53-Open Fires

STATE AND FEDERAL FUNDING APPROVED

Reduced state and federal funding appropriations for fiscal 1975-76 have been approved for air pollution control activities in Humboldt, Del Norte and Trinity Counties. The federal allocation of \$40,000 is \$10,000 lower than the prior year. A planned increase in state subvention funding did not materialize and this allocation was also reduced by approximately 8 percent to \$17,458 in Humboldt, \$1,830 in Del Norte and \$1,464 in Trinity County. Severe cuts are being made in all expense categories in order to maintain an adequate program within tightening budgetary constraints at all levels of government.

NORTH COAST EMISSIONS DROP

Completion of detailed emission inventories for Humboldt, Del Norte, and Trinity Counties for 1974 show large drops in the emissions of all major air pollutants. These reductions reflect improvements caused by installation of new air pollution control equipment and a general reduction in industrial activities during 1974. Particulate emissions in Humboldt County decreased by 7.4 tons per day, dropping from 34.5 tons per day in 1972 to 27.1 tons per day in 1974, representing a 21% decline. Particulate emissions in Del Norte and Trinity Counties which are heavily dependent on forest slash burning activities, showed only minor changes. Carbon monoxide emissions which reflect improvements in automobile control systems, dropped by approximately 35 tons per day for a 12 percent decrease. Data developed from these emission inventories will be used to update the air pollution control plan for the North Coast Air Basin and to point out areas requiring new or improved control procedures. Anyone desiring additional information or a copy of the newly revised inventories, is welcome to contact our office.

COMPLAINT SCOREBOARD

Pulp mill odor complaints rose to their normal June high levels caused by warm, fair weather and prevailing westerly winds. Smoke complaints have dropped off sharply with generally improved boiler and tepee burner operations.

	<u>April</u>	<u>May</u>	<u>June</u>
Smoke	22	5	8
Fallout	4	7	7
Pulp mill odor	27	44	60
Miscellaneous	4	2	2

TRINITY VARIANCES GRANTED

The Hearing Board of the Trinity County Air Pollution Control District has granted interim variances to the Kimberly Clark Corporation at Wildwood and Sierra Pacific Industries at Hayfork for continued operation of their tepee burners in violation of Rule 40 until July 1, 1975. Both companies had previously made major improvements to their burner systems, but are now experiencing operating difficulties because of the reduced quantity of wood waste presently available to maintain burner temperatures for efficient combustion. These variances were granted by the Board based on new programs of burner modifications designed to improve burning efficiency and further increase the utilization of wood wastes.

SUSPENDED PARTICULATE MATTER
(Micrograms Per Cubic Meter)*

COUNTY	HUMBOLDT						DEL NORTE	TRINITY
	Eureka Health	Eureka Dept. Trans	Arcata Fire Dept.	Samoa	McKinleyville	Trinidad	Crescent City	Weaverville
April 6	38	40	21	97	35	49		
12	70	89	70	104	73	87	70	29
18	40	-	39	54	25	27		
24	40	-	40	37	31	67	-	13
30	63	81	66	122	61	62		
May 6	41	55	45	81	40	40	29	20
12	83	92	56	-	51	74		
18	77	25	94	-	77	50	-	35
24	70	106	87	-	86	77		
30	90	117	109	163	79	78	134	36
June 5	66	85	65	87	56	62		
11	75	23	71	81	58	72	54	29
17	55	84	84	67	69	52		
23	35	43	28	33	25	24	21	-
29	38	51	39	50	38	36		
Max.	90	117	109	163	86	87	134	39

*The California maximum allowable value is 100 micrograms per cubic meter for a 24 hour sample.

AIR QUALITY SUMMARY - EUREKA

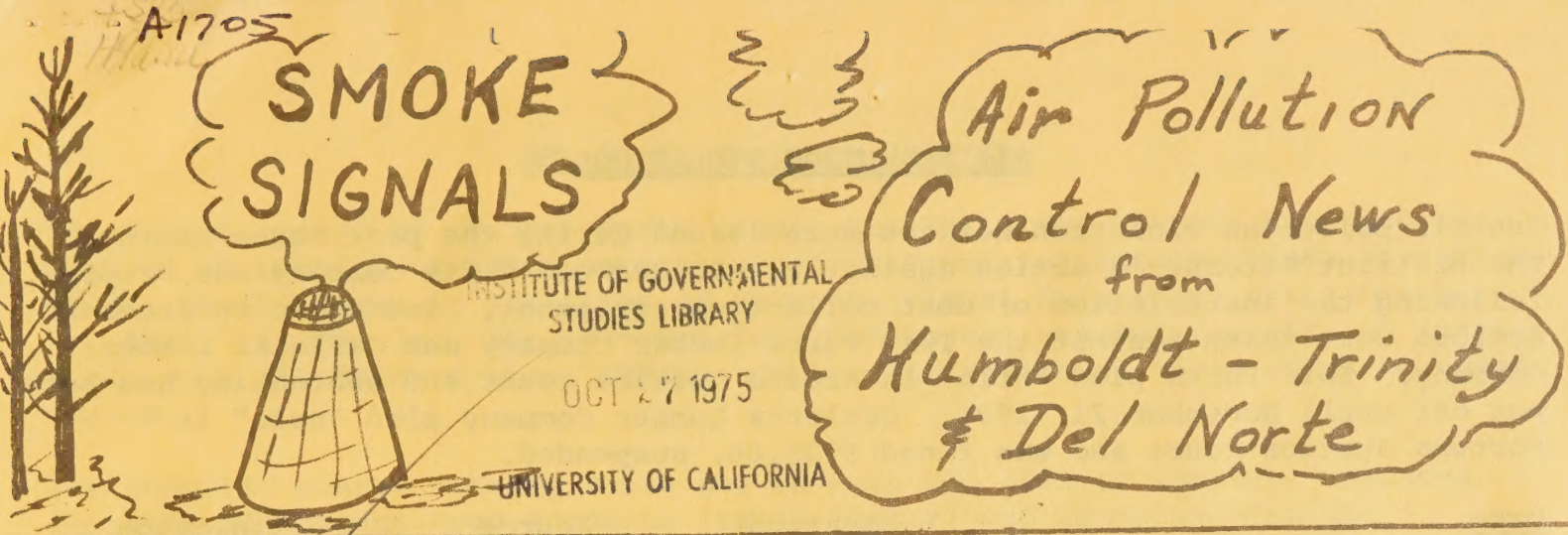
APRIL					MAY					JUNE				
Date	TRSS#1 High Hr. Average ppb	CO High Hr. Average ppm	Particula- tes #2 High 2-hr. Interval D.T. E.H.		Date	TRSS#1 High Hr. Average ppb	CO High Hr. Average ppm	Particula- tes #2 High 2-hr. Interval D.T. E.H.		Date	TRSS#1 High Hr. Average ppb	CO High Hr. Average ppm	Particula- tes #2 High 2-hr. Interval D.T. E.H.	
1	14	2	.6	-	1	4	-	.3	-	1	3	1	.1	.2
2	-	2	.4	.4	2	<3	-	.3	-	2	5	2	.7	.4
3	<3	2	.2	.1	3	3	-	.3	-	3	4	1	.5	.4
4	<3	2	.8	.5	4	<3	-	.3	-	4	4	2	.4	.4
5	<3	2	.3	.2	5	4	-	.2	-	5	4	1	.2	.4
6	4	1	.3	.3	6	3	-	.2	-	6	6	2	.3	.3
7	<3	2	.4	.4	7	4	2	.4	-	7	8	1	.3	.2
8	3	2	.4	.3	8	4	1	.3	-	8	6	2	.4	.4
9	3	2	.2	.2	9	3	1	.4	-	9	<3	2	-	.8
10	5	2	.4	.3	10	3	2	.3	.2	10	13	3	-	.7
11	7	3	.7	.7	11	7	2	.2	.2	11	6	1	.2	.3
12	4	1	.3	.5	12	4	2	.5	.5	12	5	1	.4	.4
13	3	1	.2	.2	13	<3	1	.3	.4	13	8	1	.4	.5
14	4	2	.3	.4	14	<3	2	-	-	14	<3	1	.2	.3
15	7	4	.8	.5	15	<3	2	-	-	15	6	1	.2	.2
16	-	4	.9	.5	16	4	1	-	-	16	3	2	.3	.2
17	6	1	.3	.2	17	4	1	.3	.2	17	4	1	.2	.2
18	-	2	.3	.2	18	3	1	.4	.1	18	6	1	.3	.3
19	4	1	.3	.2	19	3	1	.2	.2	19	5	1	.3	.3
20	-	1	.3	.2	20	3	1	.2	.2	20	<3	1	.2	.3
21	-	2	.3	.3	21	4	1	.3	.3	21	3	1	.2	.1
22	-	2	.3	.3	22	7	2	.2	.2	22	4	1	.2	.1
23	-	2	.2	.2	23	8	1	.2	.2	23	<3	2	.3	.4
24	-	2	.3	.4	24	6	1	.2	.2	24	<3	2	.2	.3
25	-	1	.3	.4	25	4	1	.3	.2	25	3	2	.4	.3
26	<3	1	.4	.2	26	4	1	.6	.3	26	5	1	.2	.2
27	3	1	.2	.1	27	4	1	.4	.3	27	4	1	.3	.2
28	4	3	.2	.2	28	8	1	.5	.3	28	4	1	.2	.1
29	3	1	.3	.2	29	4	2	.4	.4	29	4	1	.4	.1
30	3	-	.2	-	30	10	2	.6	.6	30	3	1	.3	.2
31	-	-	-	-	31	4	1	.4	.2	31	-	-	-	-
Max	14	4	.9	.7	Max	10	2	.6	.6	Max	13	3	.7	.8

#1 Total Reduced Sulfur

#2 COH units per 1,000 lineal feet of air sampled

D.T. - Eureka Department of Transportation E.H. - Humboldt County Health Department

F094



Volume 7, No. 3

Third Quarter - 1975

5600 South Broadway, Eureka, California 95501

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BASIN PLAN REVISED

The Air Pollution Control Plan for the North Coast Air Basin is presently being revised and updated by the Basin Coordinating Council. The original Basin Plan was formulated in 1971 and outlined air pollution goals and control strategy for attainment of federal air quality standards in the North Coast Air Basin. This 1975 Basin Plan revision presents a review of air pollution control achievements in the North Coast Air Basin and redirects the control program emphasis into those areas requiring further improvement.

New air monitoring statistics and revised emission inventories have confirmed most of the assumptions presented in the original air pollution control plan. Vehicle emissions and photochemical air pollutants are not a serious problem in the North Coast Air Basin and monitoring data indicate air quality is well within state and federal standards for carbon monoxide, nitrogen dioxide and oxidants. Industrial emissions of sulfur oxides result in ambient air concentrations far below all applicable standards. Particulate matter is the major air pollutant in the North Coast Air Basin and remains as the focal point of present and future control program efforts. During the past four years of operation under the Basin Plan, particulate emissions have dropped from 104 tons per day to 58 tons per day, representing a 44 percent decrease in this pollutant category. The original plan had only projected a 25 percent reduction. In spite of these major emission reductions, several inland valleys are still experiencing high particulate levels during periods of air stagnation. Further studies and control strategies are proposed in these critical areas.

The odor problems caused by sulfur compound emissions in the vicinity of the two kraft pulp mills in Humboldt County and in the geothermal development area in Sonoma County have been well defined. Staged kraft pulp mill odor control programs scheduled for completion in 1976, are already yielding reductions in citizen complaint levels. New technology for the reduction of hydrogen sulfide emissions at the Geysers is moving from the laboratory to the production stages as it is developed.

All counties in the North Coast Air Basin have established active air pollution control programs and the necessary procedures to administer state and federal standards in addition to local regulations. The task of achieving all ambient air quality standards in the North Coast Air Basin has not been completed. A continuing program is needed for attainment of particulate matter standards in several isolated locations and to maintain the standards throughout the Air Basin once they have been met.

Copies of the North Coast Air Basin Plan will be made available as soon as it is finalized by the Coordinating Council. A nominal reproduction fee will be charged.

AIR POLLUTION VIOLATIONS

Ten air pollution violation notices were issued during the past three months. The District Attorney's action against Fre-Co Redwood Gifts Company was dropped following the installation of dust collection equipment. Two other enforcement actions were taken against the Twin Parks Lumber Company and Carlotta Lumber Company. Twin Parks pled "nolo" in Arcata Justice Court and sentencing has been put off until November 21, 1975. Carlotta Lumber Company pled "nolo" in Fortuna Justice Court and was fined \$125.00, suspended.

<u>Date</u>		<u>Location</u>	<u>Source</u>	<u>Violation</u>
7- 5-75	Crown Simpson Pulp Co.	Fairhaven	Power Boiler	Rule 50-Vis.Emissions
7-10-75	Amarant Wood Products	Arcata	Tepee Burner	Rule 10-No Permit
7-23-75	C. K. Moseman Const.Co.	Rio Dell	Open Burning	Rule 53-Open Fires
7-23-75	City of Rio Dell	Rio Dell	Open Burning	Rule 53-Open Fires
7-29-75	Medford Plywood Co.	Crescent City	Cyclone Syst.	Rule 20-No Permit
7-30-75	Englewood Lumber Co.	Redcrest	Tepee Burner	Rule 50-Vis.Emissions
7-30-75	M & J Lumber Company	Myers Flat	Tepee Burner	Rule 50-Vis.Emissions
8-13-75	Louisiana-Pacific Corp.	Samoa	Power Boiler	Rule 52a-Particulate
8-26-75	Louisiana-Pacific Corp.	Arcata	Cyclones	Rule 52d-Particulate
8-28-75	Carlotta Lumber Co.	Carlotta	Tepee Burner	Rule 50-Vis.Emissions

TEPEE TOPICS

Mission Fence Company of Arcata and Northcrest Incorporated of Crescent City have completed installation of new wood shredding machines, thereby eliminating further tepee burner operations at both plant sites. The shredded wood fuel will be used in existing wood-fired power boilers and will further reduce the lumber industry's dependence on costly fossil fuels. Sierra Pacific Corporation at Hayfork has replaced its old sixty foot diameter burner with a new thirty foot burner built by the Industrial Construction Company of Eugene, Oregon. With increased utilization of wood wastes during the past few years, the old burner became too large to meet air pollution control regulations.

A NOTE OF SORROW

It is with great sorrow that we learned of the death of Marv Leman, Power Engineer for the Simpson Timber Company on September 13, 1975. Marv was a leader in the development of improved wood-fired boilers and tepee burner systems throughout the California North Coast and the Pacific Northwest. It was Marv's inventive design that conceived Simpson's refractory-lined tepee burner at Korbelt, which is still a model for the industry. His list of boiler achievements is far too lengthy to dwell upon. Those of us who have worked closely with Marv over the years, wish to extend our deepest sympathies to his family and other friends in sharing our great loss of a true "pioneer in power."

DEL NORTE VARIANCE GRANTED

The Hearing Board of the Del Norte County Air Pollution Control District has granted an interim variance to Northcrest Incorporated for continued operation of its tepee burner in violation of Rule 40 (Visual Emissions) until October 25, 1975. At the July 29, 1975 hearing, Northcrest presented a plan to install a new wood shredding system leading to the elimination of their existing tepee burner.

The Humboldt County Hearing Board met on July 31, 1975 to consider variance requests of Amarant Wood Products (tepee burner) and Louisiana-Pacific Corporation - Humboldt Flakeboard Division (dust collection systems). Both variance applications were denied by the Board.

CAPCOA FORMED

The California Air Pollution Control Officers Association held its first annual meeting in San Diego, California on October 9, 1975 to adopt bylaws for the new organization and elect officers for the coming year. The officers of the association for 1975-76 are President, Charles Sassenrath, (Humboldt County APCD); Vice-President, William Simmons (San Diego APCD); and Secretary-Treasurer, John Maloney (Monterey Bay APCD). Appointments were also made to the Executive and Legislative Committees. Bill Kerstan of Tulare County will join the elected officers to serve on a four member Executive Committee. The Legislative Committee includes William Simmons, Chairman, Philip Tow, Jeb Stuart, and Vern Peterson. Copies of the adopted bylaws and minutes of the Board of Directors meeting will be mailed to all California Air Pollution Control Officers in a few weeks.

COMPLAINT SCOREBOARD

Pulp mill odor complaints during the past three months dropped to the lowest levels since the mills started operating in 1965. Most of this odor reduction has been achieved by the recent addition of secondary oxidation systems at both mills.

	<u>July</u>	<u>August</u>	<u>September</u>
Smoke	17	6	17
Fallout	2	2	2
Pulp mill odor	7	21	18
Miscellaneous	0	2	3

SUSPENDED PARTICULATE MATTER
(Micrograms Per Cubic Meter)*

COUNTY	HUMBOLDT						DEL NORTE	TRINITY
Date	Eureka Health	Eureka Dept. Trans	Arcata Fire Dept.	Samoa	McKinleyville	Trinidad	Crescent City	Weaverville
July 5	37	35	34	76	47	45	15	-
11	38	57	32	39	39	35		
17	39	70	48	60	63	40	27	27
23	62	87	60	57	56	50		
29	63	93	66	104	70	61	-	18
August 4	53	65	43	48	-	35		
10	93	97	66	102	64	-	74	26
16	52	53	32	50	45	31		
22	68	88	63	100	62	66	36	-
28	56	50	44	76	30	37		
September 3	101	162	96	131	72	84	77	27
9	61	84	64	74	55	46		
15	42	65	39	49	26	43	40	-
21	46	52	33	55	43	32		
27	40	41	35	56	32	52	-	-
Maximum	101	162	96	131	72	84	77	27

*The California maximum allowable value is 100 micrograms per cubic meter for a 24 hour sample.

AIR QUALITY SUMMARY - EUREKA

Date	JULY					AUGUST					SEPTEMBER				
	TRS#1	CO	Particulates #2		Sulfur Dioxide	TRS#1	CO	Particulates #2		Date	TRS#1	CO	Particulates #2		Date
	High Hr. Average ppb	High Hr. Average ppm	High 2-hr. Interval D.T.	High 2-hr. Interval E.H.		High Hr. Average ppb	High Hr. Average ppm	High 2-hr. Interval D.T.	High 2-hr. Interval E.H.		High Hr. Average ppb	High Hr. Average ppm	High 2-hr. Interval D.T.	High 2-hr. Interval E.H.	
1	7	2	.2	.2	1	9	-	1.0	.4	1	-	-	-	.1	1
2	0	3	.2	.2	2	4	-	.2	.2	2	2	-	-	.3	2
3	0	3	.2	.3	3	2	-	.2	.2	3	-	-	.6	.7	3
4	0	2	.2	.2	4	3	-	.4	.5	4	4	-	1.0	1.4	4
5	0	3	.4	.2	5	2	-	.3	.3	5	0	-	.7	1.2	5
6	1	2	.1	.2	6	4	-	.3	.3	6	2	-	.2	.9	6
7	-	5	-	.3	7	9	-	-	.5	7	3	-	.3	.1	7
8	0	3	-	.2	8	13	-	-	.4	8	2	-	.3	.4	8
9	3	-	-	.2	9	3	-	-	.2	9	3	-	.3	.4	9
10	4	-	-	.3	10	3	-	-	.1	10	0	-	.2	.3	10
11	1	-	.2	.3	11	1	-	-	.4	11	3	-	.4	.4	11
12	4	-	.1	.2	12	0	-	-	.3	12	0	-	.2	.4	12
13	3	-	.1	.2	13	1	-	-	.4	13	1	-	.2	.5	13
14	4	-	.3	.3	14	3	-	-	.2	14	3	-	.1	.1	14
15	1	-	-	.1	15	3	-	.4	.4	15	3	-	.3	.6	15
16	5	-	-	.3	16	0	-	.3	.4	16	3	-	.3	.6	16
17	4	-	-	.6	17	0	-	.3	.2	17	5	-	.4	.6	17
18	3	-	-	.1	18	3	-	.3	.2	18	0	-	.4	.6	18
19	2	-	-	.2	19	1	-	.3	.3	19	5	-	.3	.4	19
20	2	-	-	.1	20	7	-	.3	.4	20	5	-	.2	.6	20
21	3	-	.1	.3	21	3	-	.3	.3	21	1	-	.3	.2	21
22	3	-	.4	.3	22	4	-	.3	.3	22	4	-	.4	.4	22
23	6	-	.4	.3	23	5	-	.3	.5	23	3	-	.4	.7	23
24	4	-	.3	.4	24	3	-	.2	.2	24	4	-	.3	.6	24
25	4	-	.5	.4	25	4	-	-	.3	25	4	-	-	.1	25
26	1	-	.4	.5	26	0	-	-	.4	26	2	-	-	.6	26
27	1	-	.1	.2	27	0	-	-	.4	27	0	-	-	.2	27
28	4	-	.3	.5	28	0	-	-	.5	28	7	-	-	.3	28
29	6	-	.5	.4	29	0	-	-	.6	29	3	-	-	.4	29
30	8	-	.4	.6	30	-	-	-	.2	30	0	-	-	.3	30
31	5	-	.5	.3	31	-	-	-	.2	31	-	-	-	-	31
Ave	2.6	-	.20	.20	Ave	1.1	-	.34	.33	Ave	2.6	-	.30	.40	

#1 Total Reduced Sulfur

#2 COH units per 1,000 lineal feet of air sampled

D.T. - Eureka Department of Transportation E.H. - Humboldt County Health Department

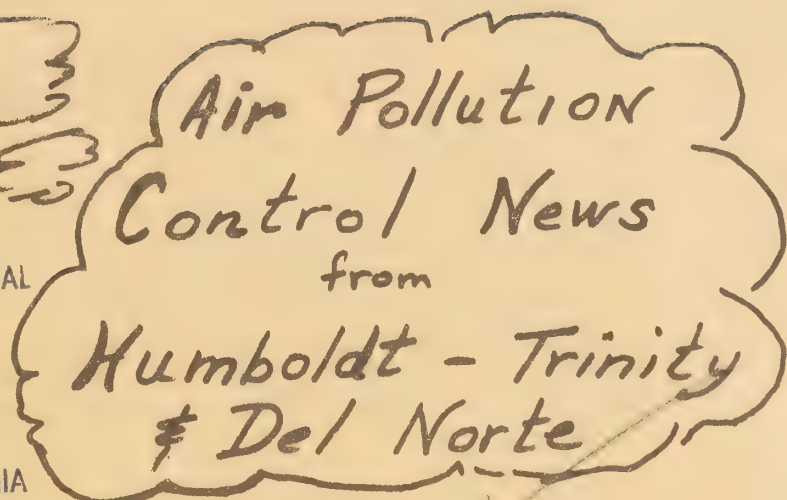


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Air Pollution Control News from

Humboldt - Trinity & Del Norte

Volume 7, No. 4

Fourth Quarter - 1975

5600 South Broadway, Eureka, California 95501

(707) 443-3091

PULP MILL MONITORS CALIBRATED

Frequent doubts have been expressed about the accuracy of emission monitoring data which are reported by the management of the two local kraft pulp mills. In response to this public skepticism, the staff of the Humboldt County Air Pollution Control District has completed a check of the accuracy of the instruments being used by the mills to measure odorous sulfide emissions. A permeation tube calibrator was set up to inject an air sample of known TRS (total reduced sulfur) and SO₂ (sulfur dioxide) concentrations into the mill instruments. In one test under good conditions, the pulp mill values and our measurements differed by only 0.14 ppm. In another test, under hot furnace room conditions, the values differed by 0.2 ppm.

These calibrations indicate that errors in our measurement systems may add up to about 5% at the 10 ppm level and coupled with similar errors in the pulp mill analyzers, a maximum difference of ± 1.0 ppm provides a good check in these complex sampling systems.

Our laboratory is now prepared to run spot checks on pulp mill sulfur analyzers from time to time with methyl mercaptan and sulfur dioxide loaded samples, which requires high emission rate permeation tubes operating in the parts per million range. Our capability was previously limited to the parts per billion range as required for an ambient air analyzer calibration.

This confirmation of the pulp mill monitoring instruments in conjunction with the total reduced sulfur analyzer at Fort Humboldt and public odor responses, provides improved assurance of the success of our odor reduction program.

A limited number of copies of the new
AIR POLLUTION CONTROL PLAN FOR THE NORTH COAST AIR BASIN
are still available for purchase at \$2.00 per copy from the
Humboldt County Air Pollution Control District

NEW BASIN REGULATIONS DEVELOPED

In a move to better consolidate air pollution programs in the five counties of the North Coast Air Basin, the Basin Coordinating Council is developing new uniform basin regulations.. If the proposed regulations are adopted by the Basin Coordinating Council and later by the five individual county districts, a single set of uniform regulations would apply throughout the entire North Coast Air Basin. It is anticipated that this new procedure will greatly reduce regulation printing costs and duplication of administrative expenses. A uniform regulation should also improve communications with industry, state and federal officials and the fire control agencies. Initially, there will be four separate regulation booklets:

- Regulation 1 Air Quality Control Rules.
- Regulation 2 Open Burning Procedures.
- Regulation 3 Federal New Source Performance Standards.
- Regulation 4 National Emission Standards for Hazardous Air Pollutants.

The new regulations will update and incorporate the changes in the new recodification of the California Health and Safety Code which became effective January 1, 1976. A proposal for Hearing Board fees and annual permit fees will also be included to help defray the increasing costs of air pollution control programs mandated by state and federal requirements.

AIR POLLUTION VIOLATIONS

Nine violation notices were issued during the last quarter of 1975, mostly for tepee burner operations during excessively wet weather conditions. The open burning violations by PVM Lumber Company and Frank Dutra were referred to the District Attorney's Office for further action.

<u>Date</u>	<u>Location</u>	<u>Source</u>	<u>Violation</u>
10-28-75 PVM Lumber Company	Arcata	Open Burning	Rule 53-Open Fires
11-12-75 Frank Dutra	Arcata	Open Burning	Rule 53-Open Fires
11-20-75 Louisiana-Pacific	Carlotta	Tepee Burner	Rule 50-Vis.Emissions
12- 4-75 Simpson Timber Company	Klamath	Tepee Burner	Rule 40-Vis.Emissions
12- 4-75 Arcata Redwood Company	Orick	Tepee Burner	Rule 50-Vis.Emissions
12- 5-75 Fortuna Wood Products	Fortuna	Tepee Burner	Rule 50-Vis.Emissions
12- 5-75 Englewood Lumber Company	Redcrest	Tepee Burner	Rule 50-Vis.Emissions
12- 5-75 Carlotta Lumber Company	Carlotta	Tepee Burner	Rule 50-Vis.Emissions
12- 8-75 Don Nolan	Elk River	Open Burning	Rule 53-Open Fires

COMPLAINT SCOREBOARD

Pulp mill odor complaints during the past three months fell to the lowest levels since the mills began operating in 1965. These reductions are attributed to the tremendous success of the new secondary oxidation systems which were installed by both mills in June, 1975. Smoke complaints rose sharply following the startup problems encountered by the Pacific Carbons plant in Blue Lake.

	<u>October</u>	<u>November</u>	<u>December</u>
Smoke	4	44	47
Fallout	1	4	2
Pulp mill odor	8	4	15
Miscellaneous other	1	0	2

ARB ADOPTS NEW SOURCE REVIEW RULES

At its October 28, 1975 meeting, the California Air Resources Board adopted new source review rules for the issuance of air pollution permits. The proposed procedures require the denial of construction permits for new plants or facilities which would cause a violation, or contribute to a continued violation, of any ambient air quality standard. When evaluating permit applications, the county air pollution control district will have to perform an air quality review for any new facilities that may emit in excess of 15 pounds per hour or 150 pounds per day of any air contaminant, except carbon monoxide. The proposed limits for carbon monoxide are set at 150 pounds per hour or 1,500 pounds per day. All air quality reviews above these emission levels will have to be sent to the ARB for their review and approval. These new source review rules will impose additional administrative expenses upon the county air pollution control districts and will cause further time delays in processing permit applications. Although the new source review procedures were developed by a joint EPA, ARB and local district task force, much of the local input was disregarded in finalizing the rules.

The North Coast Air Basin Coordinating Council will consider the adoption of the ARB new source review rules at its next regular meeting scheduled to be held in Eureka in February.

HEARING BOARD MEETING SCHEDULED

The next meeting of the Hearing Board of the Humboldt County Air Pollution Control District has been set for 2:00 p.m. on January 29, 1976 in the Supervisors' Chambers of the Humboldt County Courthouse, Eureka, California. Variances to be considered include requests for short term variances by Twin Parks Lumber Company (Arcata teepee burner), and Louisiana-Pacific Corporation (Samoa power boiler). Crown Simpson Pulp Company and Louisiana Pacific Corporation are requesting minor adjustments in their compliance schedules for meeting the future requirements for odor control of miscellaneous sources at their kraft pulp mills. No change in the date of their final compliance is anticipated. The Air Pollution Control Officer has also requested the Hearing Board to clarify the conditions under which legal proceedings should be instituted against the kraft pulp mills for alleged violations of the existing odor abatement order.

The Hearing Board will be meeting for the first time without the services of Mr. John Morrison and Mr. Lawrence Truitt, who resigned last month. Mr. Morrison is now serving as a judge of the Municipal Court and Mr. Truitt has become a member of a larger law firm in Arcata. Both retiring members were original appointees to the Hearing Board in 1969 and have been instrumental in guiding the course of air pollution control in Humboldt County. They will be replaced by Mr. Charles M. Roscoe, HSU engineering professor, and Mr. Larry B. Nord, attorney-at-law. On behalf of the entire staff of the Humboldt County Air Pollution Control District, we wish to extend our thanks and appreciation to Judge John Morrison and Mr. Lawrence Truitt for their service on the Hearing Board during the past six years.

AIR QUALITY SUMMARY

More normal weather conditions during 1975 caused air quality in Humboldt and Del Norte Counties to return to its usual low levels of air contaminant concentrations as shown on the following seven year summary table. McKinleyville was sampled again for particulate matter after a three year lapse and showed an annual mean of only 40 micrograms per cubic meter. One surprise of the 1975 air quality study was the unexpectedly high particulate matter levels measured in Trinidad. The annual mean of 56 micrograms per cubic meter was considerably higher than prior values of 30-38 which had been previously reported from state and federal studies. The high values found in our recent study are suspected to be attributed mainly to sea salt and wind blown sand. The Trinidad sampler has been moved to the U. S. Coast Guard station and will be operated again in 1976 to collect more data on remote sea coast environments. An additional high volume particulate sample station has been established at Kneeland to determine background values in remote mountainous areas around Humboldt Bay.

Measurements for carbon monoxide taken during the past year showed ambient concentrations of that pollutant to be far below state and federal standards. The maximum high hourly average of 15 parts per million measured on January 14, 1975 was far below the federal standard of 35 ppm. Because of budget limitations and other program requirements, further carbon monoxide sampling has been discontinued.

SUMMARY OF SUSPENDED PARTICULATE MATTER

HUMBOLDT, DEL NORTE & TRINITY COUNTIES

(Annual Geometric Means in
microgram per cubic meter by Hi-Vol Method*)

LOCATION	1969	1970	1971	1972	1973	1974	1975	1976
Arcata-Downtown	89	58	49	45	47	61	48	
Arcata-Guintoli Lane					51			
Blue Lake		76	72	54	43			
Crescent City				50	48	52	48	
Eureka-Dept. of Trans.		69	56	49	56	62	60	
Eureka-Downtown	73	51	46	50	49	54	53	
Eureka-Ft. Humboldt		60						
Eureka-Gen. Hospital		38	38	41				
Fortuna		37	33	37				
McKinleyville		57	58				40	
Samoa		104	77	77	94	125	74	
Trinidad							56	
Weaverville					61	30	31	

*The California standard is 60.

SUSPENDED PARTICULATE MATTER
(Micrograms Per Cubic Meter)*

COUNTY	HUMBOLDT						DEL NORTE	TRINITY
	Eureka Health	Eureka Dept. Trans	Arcata Fire Dept.	Samoa	McKinleyville	Trinidad	Crescent City	Weaverville
Oct. 3	61	71	63	89	34	36		
9	25	23	24	33	21	69	45	-
15	74	92	58	-	58	84		
21	41	43	41	105	26	57	80	-
27	34	29	24	53	18	56		
Nov. 2	58	67	45	114	41	62	24	-
8	93	93	59	113	43	103		
14	27	20	34	59	20	111	67	-
20	52	63	73	79	33	66		
26	39	41	35	100	29	60	44	-
Dec. 2	26	29	25	23	22	-		
8	103	104	82	70	50	-	47	40
14	58	77	57	76	-	72		
20	77	78	53	-	-	52	113	86
26	141	135	74	-	-	123		
Maximum	141	135	82	114	58	123	113	86

*The California maximum allowable value is 100 micrograms per cubic meter for a 24 hour sample.

AIR QUALITY SUMMARY - EUREKA

OCTOBER					NOVEMBER					DECEMBER				
Date	TRS#1	CO	Particulates #2		Date	TRS#1	CO	Particulates #2		Date	TRS#1	CO	Particulates #2	
	High Hr. Average	High Hr. Average	High 2-hr. Interval	D.T. E.H.		High Hr. Average	High Hr. Average	High 2-hr. Interval	D.T. E.H.		High Hr. Average	High Hr. Average	High 2-hr. Interval	D.T. E.H.
1	2	-	.6	.6	1	3	-	.6	.7	1	0	-	.3	.6
2	0	-	.3	.4	2	6	-	.8	.9	2	0	-	.4	.4
3	0	-	.5	.6	3	4	-	.9	1.1	3	0	-	1.0	1.2
4	4	-	.4	.5	4	-	-	.7	.6	4	0	1	.2	.2
5	3	-	.3	.4	5	1	-	1.0	.9	5	0	-	.5	1.1
6	2	-	.4	.5	6	0	-	.8	.4	6	1	-	1.0	1.5
7	0	-	.2	.4	7	-	-	.9	1.0	7	3	-	1.1	1.8
8	-	-	.2	.2	8	2	-	-	1.0	8	4	-	1.6	1.7
9	0	-	.2	.3	9	0	-	-	.8	9	4	-	.4	.5
10	0	-	.2	.4	10	-	-	-	.8	10	0	-	.3	.4
11	11	-	1.0	.8	11	-	-	-	.8	11	-	-	.5	.6
12	4	-	.4	.4	12	-	-	-	1.6	12	1	-	.5	.6
13	4	-	.4	-	13	0	-	-	1.0	13	2	-	.5	.4
14	5	-	.5	.8	14	0	-	-	.3	14	2	-	.4	1.1
15	5	-	1.0	1.0	15	0	-	-	1.2	15	-	-	-	1.2
16	5	-	.7	.6	16	0	-	-	1.4	16	4	-	-	.8
17	3	-	.4	.3	17	2	-	-	1.0	17	-	-	-	.9
18	3	-	.2	-	18	-	-	-	-	18	4	-	.6	.6
19	4	-	.2	-	19	0	-	.5	-	19	0	-	.4	.4
20	3	-	.4	.7	20	-	-	1.2	-	20	0	-	.8	.9
21	2	-	-	.6	21	0	-	1.4	-	21	0	-	.4	.3
22	5	-	-	.8	22	1	-	.8	-	22	1	-	1.1	.9
23	-	-	-	.9	23	1	-	.7	-	23	0	-	.8	1.0
24	4	-	1.1	1.1	24	2	-	-	1.2	24	0	-	.4	.5
25	0	-	.3	.2	25	1	-	-	.7	25	0	-	.4	.2
26	0	-	.4	.4	26	1	-	-	.4	26	0	-	.7	.6
27	0	-	.6	.8	27	0	-	-	.2	27	2	-	1.0	1.1
28	0	-	.5	.7	28	1	-	-	1.0	28	1	-	.6	.7
29	0	-	.2	.2	29	0	-	-	.4	29	0	-	.8	.6
30	4	-	.2	.3	30	0	-	-	-	30	0	-	.3	-
31	1	-	.8	.6	31	-	-	-	-	31	1	-	1.5	-
Ave	2.6	-	.44	.55	Ave	1.1	-	.86	.84	Ave	1.0	-	.66	.79

#1 Total Reduced Sulfur

#2 COH units per 1,000 lineal feet of air sampled

D.T. - Eureka Department of Transportation

E.H. - Humboldt County Health Department

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Smoke signals : quarterly news
bulletin of the Humboldt County
Air Pollution Control District.

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